



U.S. CONSUMER PRODUCT SAFETY COMMISSION
WASHINGTON, DC 20207

Todd A. Stevenson
Deputy Secretary and Freedom of Information Officer

Tel: (301) 504-0785 ext. 1239
Fax: (301) 504-0127
Email: tstevenson@cpsc.gov

Office of the Secretary

OSFOI Firm: 0235 Walt Disney Co. (waffle irons) Off(6a6b release) Off(denial), EX. 5,7(E), chron, spec. 3285
July 12, 1999

Herb Hewitt
STR
10 Water Street
Enfield, CT 06082-4899

A handwritten signature, likely of Todd A. Stevenson, is located to the right of the recipient's address. It is a stylized, cursive signature.

RE: FOIA Request S-9040024; Documents related to the recall of 1,300 Mickey Mouse electric waffle irons by Walt Disney Company

Dear Mr. Hewitt:

Thank you for your Freedom of Information Act (FOIA) request seeking information from the Commission (Commission). The records from the Commission files responsive to your request have been processed and copies of the releasable records are enclosed.

The enclosed records constitute file information generated by the Commission itself or its contractors for regulatory or enforcement purposes. These records are in files RP970157 and are identified as Hazard Assessment memoranda and other correspondence notes and documents. The Commission has established management systems under which supervisors are responsible for reviewing the work of their employees or contractors. The file information materials are final and have been prepared and accepted by the Commission's staff under such review systems. The Commission believes that it has taken reasonable steps to assure the accuracy of the information. Please note that the Commission's staff, not the Commissioners themselves, made the preliminary determination that this product presented a substantial risk of injury to the public as defined by the Consumer Product Safety Act.

We must withhold portions of the law enforcement investigatory files pursuant to Exemptions 5 and 7 (E) of the FOIA, 5 U.S.C. §§ 552 (b) (5) and (b) (7) (E). Exemption 5 provides for the withholding from disclosure of inter-agency and intra-agency memoranda which would not be available by law to a party in litigation with the agency. FOIA Exemption 7 (E) provides for the withholding from disclosure records or information compiled for law



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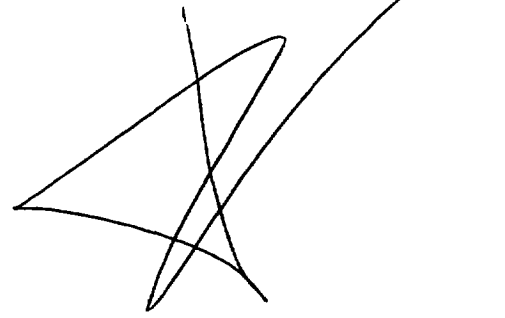
Todd A. Stevenson
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Office of the Secretary

OSFOI Firm: 0235 Walt Disney Co. (waffle irons) Off(6a6b release) Off(denial), EX. 5,7(E), chron, spec. 3285
July 12, 1999

Jay Tilley, Editor
Product Safety Letter
Washington Business Information, Inc.
1117 North 19th Street, Suite 200
Arlington, VA 22209-1798



RE: FOIA Request S-9030122; Documents related to the recall of 1,300 Mickey Mouse electric waffle irons by Walt Disney Company

Dear Mr. Tilley:

Thank you for your Freedom of Information Act (FOIA) request seeking information from the Commission (Commission). The records from the Commission files responsive to your request have been processed and copies of the releasable records are enclosed.

The enclosed records constitute file information generated by the Commission itself or its contractors for regulatory or enforcement purposes. These records are in files RP970157 and are identified as Hazard Assessment memoranda and other correspondence notes and documents. The Commission has established management systems under which supervisors are responsible for reviewing the work of their employees or contractors. The file information materials are final and have been prepared and accepted by the Commission's staff under such review systems. The Commission believes that it has taken reasonable steps to assure the accuracy of the information. Please note that the Commissions staff, not the Commissioners themselves, made the preliminary determination that this product presented a substantial risk of injury to the public as defined by the Consumer Product Safety Act.

We must withhold portions of the law enforcement investigatory files pursuant to Exemptions 5 and 7 (E) of the FOIA, 5 U.S.C. §§ 552 (b) (5) and (b) (7) (E). Exemption 5 provides for the withholding from disclosure of inter-agency and intra-agency memoranda which would not be available by law to a party in litigation with the agency. FOIA Exemption 7 (E) provides for the withholding from disclosure records or information compiled for law

enforcement purposes, to the extent that the production of such law enforcement records or information would disclose techniques and procedures for law enforcement investigations or prosecutions, or would disclose guidelines for law enforcement investigations or prosecutions if such disclosure could reasonably be expected to risk circumvention of the law.

The records being withheld consist of internal notes and memoranda containing recommendations, opinion, suggestions and analyses of the Commission's technical and legal staffs. The records constitute both predecisional and deliberative discussion that clearly falls within the attorney-client and attorney-work product privileges. Any factual materials in the records not covered by some other exemption are inextricably intertwined with exempt materials or the disclosure of the factual materials would itself expose the deliberative process. We have determined that the disclosure of these certain law enforcement investigatory records responsive to your request would be contrary to the public interest. It would not be in the public interest to disclose these material because disclosure would: (1) impair the frank exchange of views necessary with respect to such matters, and (2) reveal the techniques, guidelines and strategies utilized by the investigative and legal staff in developing the information regarding this investigation and other on-going investigations, which if disclosed would significantly risk circumvention of the statutes and regulations of the Commission administers.

According to the Commission's regulations implementing the FOIA at 16 C.F.R. § 1015.7, a partial denial of access to records may be appealed to the General Counsel of the Commission within thirty (30) days of your receipt of this letter. An appeal must be in writing and addressed to: FOIA APPEAL, General Counsel, ATTN: Office of the Secretary, U.S. Consumer Product Safety Commission, Washington, D. C. 20207.

Processing this request, conducting the file searches and preparing the information cost the Commission \$100.00. In this instance we have waived all of the charges. Thank you for your interest in consumer product safety. Should you have any questions, please contact Alberta Mills, Paralegal Specialist, by letter, facsimile (301) 504-0127 or telephone (301) 504-0785, ext. 1299.

Sincerely,

Todd A. Stevenson
Deputy Secretary and
Freedom of Information Officer
Office of the Secretary

Enclosure

News from CPSC

U.S. Consumer Product Safety Commission

Office of Information and Public Affairs

Washington, D.C. 20207

For Immediate Release

March 4, 1999

Release # 99-072

MFR/PRVLBR NOTIFIED
No Comments made
Comments attached
Excisions/Revisions
Firm has not requested
further notice
Jm 7/12/99

CPSC Contact: Kim Dulic
(301) 504-0580 Ext. 1183

Disney Contact: Chuck Champlin
(818) 567-5959

CPSC, Disney Announce Recall of Mickey's Waffle Irons

WASHINGTON, D.C. - In cooperation with the U.S. Consumer Product Safety Commission (CPSC), The Walt Disney Co., of Burbank, Calif., is voluntarily recalling more than 1,300 electric waffle irons. The waffle irons are improperly wired, presenting fire, shock and electrocution hazards to consumers.

Disney has received one report of a waffle iron catching on fire at the wall socket. No injuries or property damage was reported.

The waffle irons were manufactured by Vitantonio Products. The wiring was installed improperly during the manufacturing process. Vitantonio is a former licensee of Disney Consumer Products and is no longer in business. However, out of concern for consumer safety, Disney immediately agreed to conduct the recall itself and provide consumers with an incentive to return the waffle irons. Disney is offering consumers who participate in this recall a \$70 gift voucher good for use in The Disney Catalog.

The waffle iron is chrome and black. It is made in a "clam-shell" design, and when the top lid is opened, a Mickey Mouse face is revealed on the cooking surfaces, which measure 7 inches in diameter. "Vitantonio Premier Mickey's Waffler ©The Walt Disney Co." is on a metallic label on the handle. Only waffle irons with three-prong plugs bearing model number 1950 and a serial number in one of the following ranges are being recalled: 17001000 to 17002661 or 46006022 to 46006524. The model and serial number are on a label affixed to the bottom of the waffle iron, along with "Vitantonio ... Made in U.S.A. ... UL 43G5 Listed".

Walt Disney World Resorts and specialty kitchen and department stores nationwide sold the waffle irons from October 1996 through January 1997 for about \$60.

-more-

Consumers immediately should stop using the recalled waffle irons. Consumers should contact Disney at (800) 935-2394 anytime for instructions on returning the waffle iron to receive the \$70 gift voucher.

Vitantonio made a number of other styles of Mickey waffle irons for Disney. None of these products are involved in this recall.



####

Editor's Note: To access a full-color version of the product photo in JPEG (JPG) format, go to this press release on CPSC's web site at:

<http://www.cpsc.gov/cpscpub/prerel/prhtml99/99072.html>

To download, place the cursor on the image, click and hold the mouse button (right mouse button for PC users), and use the "save as" menu to save the image in the desired location.

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VITANTONIO SALES HISTORY
PREMIER WAFFLERS

MODEL DESCRIPTION	* 1993	* 1994	1995	1996	1997	1998 YTD	TOTAL SALES
1550 BELGIAN	25000	30000	12121	23345	28269	14559	133294
1600 FIVE OF HEARTS	8000	9000	5378	11300	7075	5637	46390
1800 CLASSIC	12000	14000	8049	10716	11253	6199	62217
1950 MICKEY	7000	12000	3294	7385	9366	1688	40733
TOTAL WAFFLERS	52000	65000	28842	52746	55963	28083	282634

NOTE: * INDICATES ESTIMATED SALES FOR 1993 AND 1994.
FROM PRIOR COMPANY OWNERSHIP

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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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11/13/96	31	460020569-460020599	97 TOTAL	5782			5/10/97	726	27004025-27004744		
12/9/96	73	460020600-460020672					5/13/97	522	27004745-27005479		
12/10/96	798	460020673-460021470	1/16/98	1609	18008232-18009831		6/10/97	279	27005480-27005758		
12/11/96	219	460021471-460021689	1/26/98	800	18009852-180010657		6/27/97	45	27005759-27005803	1/16/98	1718010351-18010368
12/13/96	72	460021690-460021761	3/9/98	1089	18003144-18004232		7/8/97	1495	27005804-27007298	2/16/98	907 18010369-18011276
12/16/96	288	460021762-460022049	3/26/98	792	18011724-18012516		8/14/97	2342	37007328-37009683	2/17/98	35 18011276-18011310
12/17/96	720	460022050-460022769	3/31/98	181	18011132-18011287		9/30/97	1583	37009684-370011266		
12/18/96	1061	460022770-460023830	5/4/98	686	28004343-28005029		10/14/97	76	470011580-470012420	TOTAL 98	959
			6/9/98	952	28005030-28006017		9/8/34	1358	470012401-470013778		
1996 TOTAL	25512		6/15/98	226	28006018-28006299		10/24/97	24	470013779-470013802		
							11/8/97	652	470013803-470014454		
1/17/97	289	17001000-17001289	TOTAL 98	6335			11/24/97	1600	47014455-470116054		
1/20/97	576	17001290-17001865					12/8/97	572	47016055-470116626		
1/21/96	636	17001866-17002501					12/18/97	228	47016627-470116854		
1/31/98	134	17002502-17002635					12/19/97	87	47016855-470116941		
2/18/97	774	17002636-17003409					12/24/97	552	47016942-47017493		
3/6/97	504	17003410-17003913					97 TOTAL	15165			
3/7/97	792	17003914-17004705									
3/10/97	703	17004706-17005408					1/21/98	720	18007531-18008251		
3/12/97	339	17005409-17005747					1/26/98	1100	18018845-18019945		
3/18/97	376	17005748-17006123					3/20/98	943	18015328-18016271		
3/31/97	215	17006124-17006338					3/21/98	216	18016272-18016487		
4/16/97	38	17006339-17006376					3/24/98	1070	18019261-18019981		
4/21/97	1656	17006377-17008032					4/21/98	1923	28006768-28008675		
4/25/97	1017	17008033-17009048									
5/21/97	1350	27009049-270010398									
5/30/97	835	270010399-270011233					TOTAL 98	5972			
6/10/97	551	270011234-270011784									
6/18/97	394	270011785-270012178									
6/23/97	200	270012179-270012378									
7/8/97	179	27012379-270012557									
7/15/97	89	37012601-37012689									
7/19/97	824	37012690-37013513									
7/22/97	263	37014361-37014624									
7/26/97	453	37014625-37015077									
7/29/97	117	37015078-37015195									
9/2/97	1623	37015196-37016817									
9/9/97	2241	37016818-37019058									

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CONFIDENTIAL

UL DOCUMENTS

FILE: E78547

Sec. 7

#1150, 1200, 1550, 1600, 1800,

1950, 1225, 1300, 1400



Underwriters Laboratories Inc. **AUG 7**

333 Pfingsten Road
Northbrook, Illinois 60062-2096
(847) 272-8800
FAX No. (847) 272-8129
MCI Mail No. 254-3343
Telex No. 6502543343

8/ 8/1997

Project No. 97NV206910
File No. E78547



207829-001
MR E VITANTONIO
VITANTONIO PRODUCTS, DIV OF
KADEE PRODUCTS LTD
6225 COCHRAN RD
SOLON OH 44139

CATEGORY: HEATERS, COOKING APPLIANCES, HOUSEHOLD

The following material resulting from the investigation under the above numbers is enclosed (see below for specifics):

<u>Volume</u>	<u>Section</u>	<u>Revised Date</u>	<u>Report Date</u>	<u>New Date</u>	<u>Material</u>
1	7	08/08/97	11/02/92		Pg. 3

VARIATION NOTICE V5650160.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

Please review this material and report any typing errors or inaccurate mailing instructions to Nancy Blume, extension 43001, referring to the above project number.

UNDERWRITERS LABORATORIES INC.

MICHAEL BANDEMER
Department 482C
Extension 42001

Enclosure

cc: UL INSPECTION CENTER CLEVELAND

X1

333 Pfingsten Road
Northbrook, Illinois 60062-2096
(847) 272-8800
FAX No. (847) 272-8129
MCI Mail No. 254-3343
Telex No. 6502543343



11/ 4/1997

Project No. 97NK28907
File No. E78547
PO Number. 971591



207829-001
MR E VITANTONIO
VITANTONIO PRODUCTS, DIV OF
KADEE PRODUCTS LTD
6225 COCHRAN RD
SOLON OH 44139

CATEGORY: HEATERS, COOKING APPLIANCES, HOUSEHOLD

MODEL DESCRIPTION: WAFFLE MAKER 1550 WITH ALTERNATE FOOD/
HANDLE AND ENCLOSURE SHAPE

The following material resulting from the investigation under the above numbers is enclosed (see below for specifics):

<u>Volume</u>	<u>Section</u>	<u>Revised Date</u>	<u>Report Date</u>	<u>New Date</u>	<u>Material</u>
1	7		11/02/92	11/04/97	PGS. 7, 8, FIGS. 5, 6
-			11/02/92	11/04/97	T10

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

Please review this material and report any typing errors or inaccurate mailing instructions to Nancy Blume, extension 43001, referring to the above project number.

UNDERWRITERS LABORATORIES INC.

KEVIN WINTERROTH
Department 413E
Extension 43182

Enclosure

.cc: UL INSPECTION CENTER CLEVELAND

Y1



Underwriters Laboratories Inc.

333 Pfingsten Road
Northbrook, Illinois 60062-2096
(847) 272-8800
FAX No. (847) 272-8129
MCI Mail No. 254-3343
Telex No. 6502543343

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK



Northbrook Office

Kadee Products Ltd
Mr. Mike Winfield
6225 Cochran Road
Solon, OH 44139

October 27, 1997

SEE PAGE

Our Reference: File E78547, Project 97NK28907

Subject: Waffle Makers with Alternate Foot/Handle and Enclosure Shape

Dear Mr. Winfield,

We have completed our engineering investigation under the above project number and find the product complies with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Inspection Procedure and serves as authorization to apply the UL and C-UL Mark to the above products constructed as described below:

Similar to products covered in the UL Follow-Up Services Inspection Procedure,
File E78547, Volume 1, Section 7.

This authorization is effective for 90 days only from the date of this Notice. Records covering the product are now being prepared and will be sent to you in the near future.

Please note: Within Canada, there are federal and local statutes and regulations requiring the use of bilingual product markings. It is the responsibility of the manufacturer (or distributor) to comply with this law. As such, the markings provided in the UL Follow-Up Service Procedure may include only the English version. Please contact us if you need assistance with translations or in determining which markings are appropriate for your product.

Products produced which bear the UL Mark shall be identical to those which were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, authorization to use the UL Mark may be withdrawn and products that bear the UL Mark may have to be revised (in the field or at the manufacturer's facility) to bring them into compliance with UL's requirements.

Very truly yours,

Kevin Winterroth
Kevin Winterroth (Ext. 43182)
Associate Project Engineer
Engineering Services

Reviewed by:

Stephanie T. Lane
Stephanie T. Lane (Ext. 43324)
Project Engineer
Engineering Services



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File E78547
Project 92NK6029

November 2, 1992

REPORT

on

HEATERS, COOKING APPLIANCES, HOUSEHOLD

Vitantonio Manufacturing Co.
Div. of Victorio Co.
Eastlake, OH

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MG/RWV:dte
PC lbry

D E S C R I P T I O N

PRODUCT COVERED:

*USL, CNL Waffle maker, Models 1150, 1200, 1550, 1600, 1800 and 1950. Pizzelle maker Models 1225, 1300 and 1400. All models may be followed by a one letter suffix.

ELECTRICAL RATING:

Rated 120 V ac, 1000 W, 8.5 A.

GENERAL CONSTRUCTION:

See Sec. Gen. for details. Text for "Important Safeguards, see ILL. 1.

ENGINEERING CONSIDERATIONS (NOT FIELD REPRESENTATIVE'S USE:

CNL - Indicates investigation to Canadian National Standard C22.2, No. 64-M91. Household Cooking and Liquid-Heating Appliances.

WAFFLE BAKER - MODEL 1950 - FIG. 1 (C92-6548)

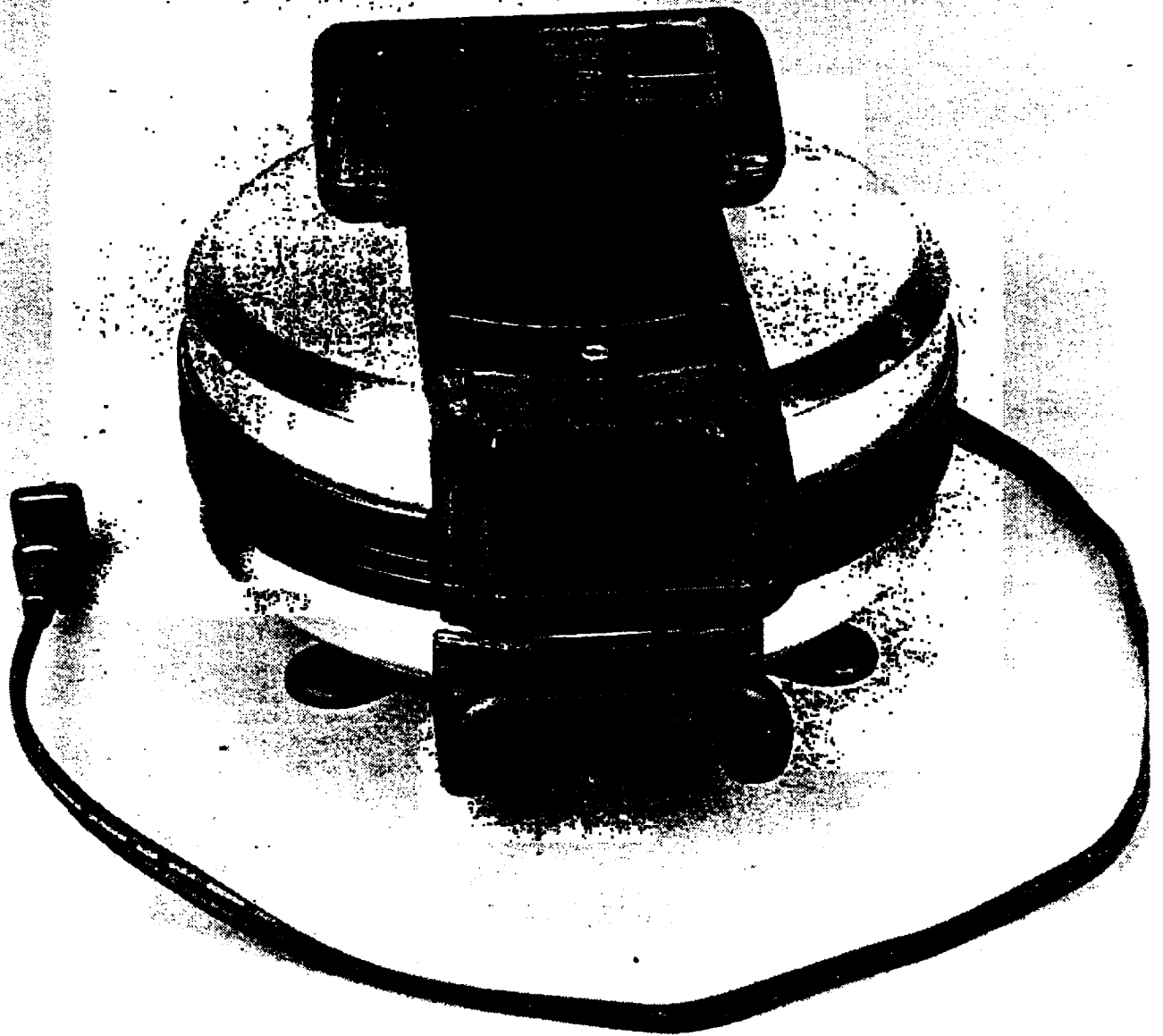
1. Handle/Foot Piece - Consists of three pieces. R/C (QMFZ2) plastics, Type EB3000-2, manufactured by Cuyahoga Molded Plastics Corp., (rated 94V-0) minimum 0.07 in. thick. Top piece 10-3/16 in. long by 4-11/16 in. wide maximum tapering to 3 in. wide. Provided with three openings, two for lens pieces, each 1 by 11/16 in. Other opening 1-1/2 in. by 9/32 in., provided for thermostat actuator knob, Item 2. Handle and feet secured to bottom enclosure, Item 6 by screws. Foot piece at rear approx 13/32 in. long by 9/16 in. wide by 1/4 in. high maximum. Secured to bottom enclosure by three screws. Foot piece contains an integrally molded compartment for strain relief, Fig. 3, Item 4.

Alternate - Same as above except molded of R/C (QMFZ2), Type MB2000-10 manufactured by MAR-BAL INC. (rated 94V-0).
2. Actuator Knob - Two-piece construction. Knob is molded of R/C (QMFZ2), rated at least 94HB. Secured by snap-fit in thermostat adjustment piece, R/C (QMFZ2), phenolic Type 506, manufactured by Plaslok Corp. (rated 94V-0, 150°C), overall 1-1/2 in. long by 29/32 in. wide by 1/2 in. high maximum. Adjustment piece provided with integrally molded tooth rack which meets with pinion gear of thermostat.
3. Pilot Light - Two provided. Neon bulbs with integral copper alloy leads and dropping resistor, leads terminated at internal wiring by crimp-on copper alloy connectors and are completely sleeved, including dropping resistor by R/C (YPDU2) sleeving, rated at least 150°C, 150 V. Connections at internal wiring are made between the top enclosure, Item 1 and handle/foot piece, Item 1. Bulbs snap-fit in integral formed ribs of handle foot assembly. Provided with a snap-fit in pilot light/lens which is R/C (QMFZ2) plastics, Type Lexan 940-A, manufactured by GE Plastics or Type Calibre 700-06 manufactured by Dow Chemical (rated 94V-0, 125°C), requiring tool for removal.

Alternate - Identical to above, except one provided.

4. *Top Enclosure - Plated steel, minimum 0.024 in. thick, 7-1/4 in. diameter by 1-1/8 in. high. Provided with an opening for thermostat actuator knob, Item 2, and opening with rounded edges, for routing of internal wiring.

Alternate - Identical to above, except opening for routing of internal wiring provided with a silicon rubber grommet of Vanguard Products Corporation Compound No. VC2495 material, minimum of 1/16 in. thick, secured by shape and tight fitting to opening.



5. Bottom Enclosure - Same material and dimensions as top enclosure, Item 4 except openings for routing of actuator knobs and internal wiring are omitted.
6. Power Supply Cord - Listed/Certified, Type HPN, No. 18 AWG, 3-conductor, length ranges between 2 to 7 ft. Cord terminates in a molded-on parallel blade attachment plug cap provided with grounding pin. Other end is terminated in copper-alloy crimp-type spade connectors with detents. Grounding conductor terminated at cord guard in crimped-on closed loop connectors.

*Alternate - (USL Only) - Same as above except 2 conductors.

MODELS 1150, 1200, 1225, 1400, 1600 AND 1800

General - The Models 1150, 1200, 1225, 1400, 1600 and 1800 are identical to the Model 1950, except the grids cooking surface configuration are the "Texas Waffler," "Carousel," "Christmas Pizzelle," "Pizzelle," "Five of Hearts" or "Classic Waffle" respectively in place of the "Mickey Mouse" configuration.

MODELS 1300 AND 1550

General - The Models 1300 and 1550 are identical to the Model 1950 except 95 described in Fig. 4.

MODEL 1950 - FIG. 2 (C92-6549)

1. Grids - (Two provided) - Aluminum, 3/16 in. thick by 7-3/8 in. diameter excluding hinges. Provided with integral hinges pinned together by plated steel pin. Grids secured by screws to top and bottom enclosures. Surfaces may be provided with a nonstick coating.

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FIG. 2



C92-6549

MODEL 1950 - FIG. 3 (C92-6550)

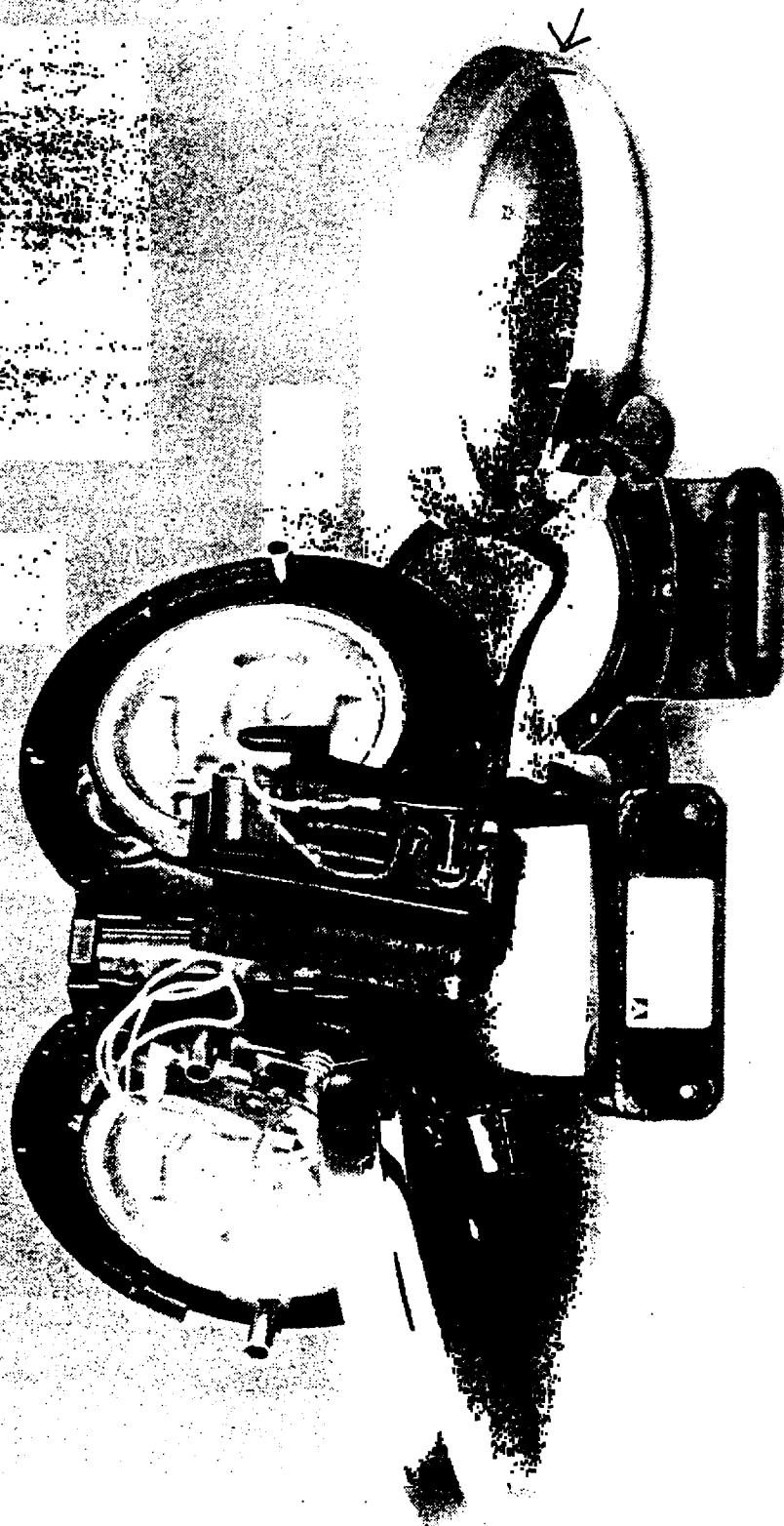
1. *Internal Wiring - R/C (AVLV2)/Certified No. 18 AWG, comprised of 16 No. 30 AWG nickel coated copper conductors insulated with minimum 0.017 in. thick mica-glass insulation rated 300 V, 350°C. Wiring is terminated as follows: In nickel-plated copper alloy, crimp-type connectors with detents at thermostat, heating element assembly and power supply cord.

*Alternate - R/C (AVLV2)/Certified AWM, No. 18 AWG, comprised of 19 strands of 0.0092 in. diameter No. 30 nickel coated copper conductors, rated 300 V, 350°C.
2. *Thermostat - R/C (XAPX2)/Certified, Type A862, manufactured by Norstat Corp.; (rated 120 V ac, 15 A, noninductive, tested for 100,000 c). Calibrated and marked to open at "L430." Secured to lower grid by a screw. Rotation prevented by integral tab on grid mated with same type opening in thermostat.

*Alternate - Same except R/C (XAPX2)/Certified, Type HT, manufactured by Bimet Corp. (rated 120 V ac, 16.67 A. Noninductive, tested for 100,000 c). Calibrated to open at 430°F.

*Alternate - Same except R/C (XAPX2)/Certified, manufactured by Electrovac, Type Z42BJJJ-A230QJ-A, calibrated to open at 230°C (rated 230 V ac, 10 A noninductive, tested for 100,000 c).
3. Heating Element Assembly - Two provided, one in each grid. Each assembly consists of sheathed heating elements. Construction consists of resistance wire embedded in magnesium oxide, encased in a 1/32 in. thick, 5/16 in. OD aluminum sheath. Resistance wire terminated in 1/16 in. diameter steel cold pins, with weld plated steel male quick-connects, with detents. Lower element is rated 120 V ac, 500 W and the upper element is rated 120 V ac, 500 W. Located in formed integral channels of grids, Fig. 2, Item 1 and clamped in place.
4. Strain Relief - Provided within an integrally molded compartment in foot piece, Fig. 1, Item 1. Consists of power supply cord, Fig. 1, Item 6 being routed around two integral wall extensions, 1/4 in. high maximum by 3/4 in. long maximum. Cover piece 4-1/2 in. long by 1-1/2 in. wide by 1-3/16 in. high. Provided with two 3/16 in. diameter openings for screw securement to foot piece.

AND REPORT



5. Marking - Pressure sensitive Marking and Label System applied to base of handle/foot piece, Fig. 1, Item 1, includes manufacturer's name, electrical rating, model number and the following statement "Do Not Immerse In Water, Household Use Only." See Sec. Gen. for other required markings.

MODEL 1550 - WAFFLE BAKER - FIG. 4 (C93-5027)

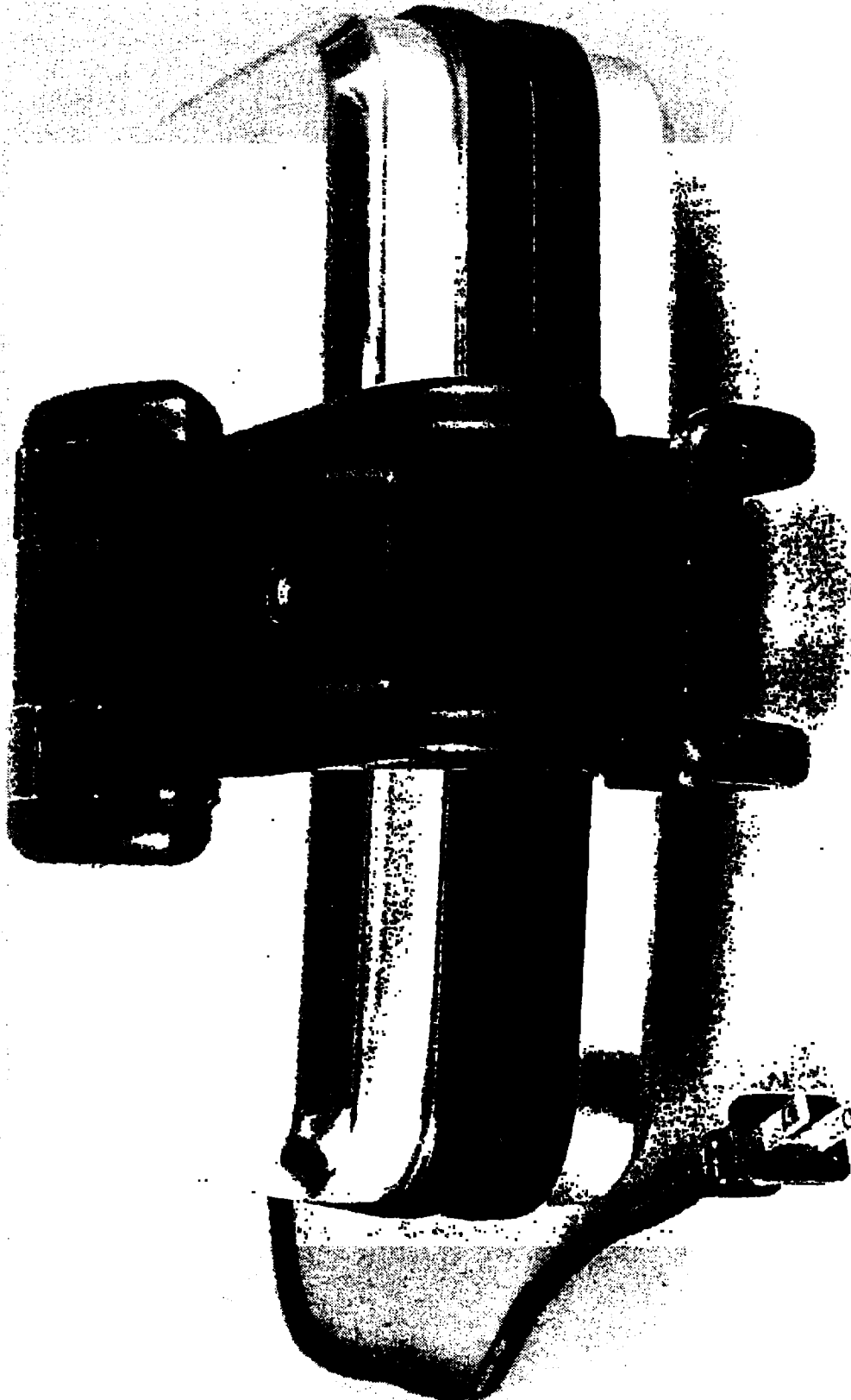
General - The Model 1550 is identical to the Model 1950, except for as described below.

1. Handle/Foot Piece - Same as Fig. 1, Item 1 except dimensions. Top piece 9-1/2 in. long by 4-7/16 in. wide maximum tapering to 3 in. wide. Foot piece at rear approx 4-3/8 in. wide by 3 in. long by 3/4 in. high.
2. Top Enclosure - Same as Fig. 1, Item 4 except dimensions. 10-1/4 in. wide by 5-1/2 in. deep by 1-1/8 in. high.

MODEL 1300

General - The Model 1300 is identical to Model 1550 except the grid's cooking surface configuration is "Pizzelle".

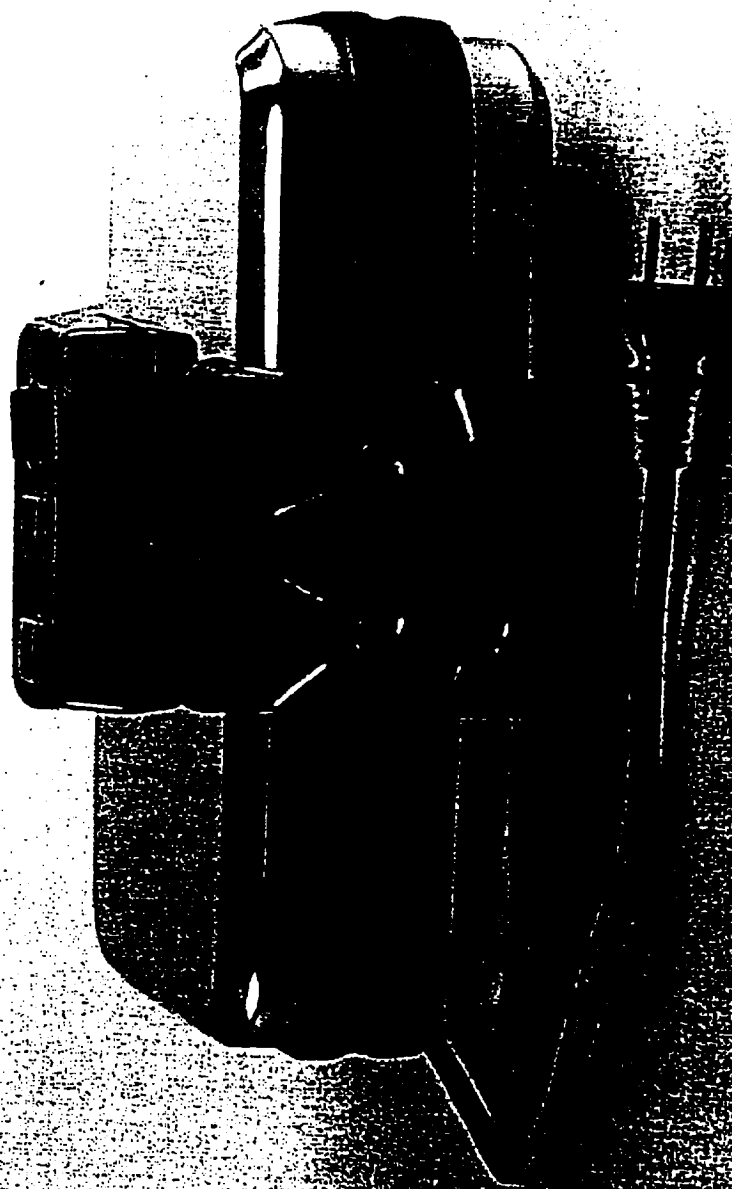
AND REPORT



MODEL 1550 ALTERNATE CONSTRUCTION - FIG. 5 (N97-15916)

General - The alternate construction of Model 1550 is identical to the Model 1550 previously described except as noted below:

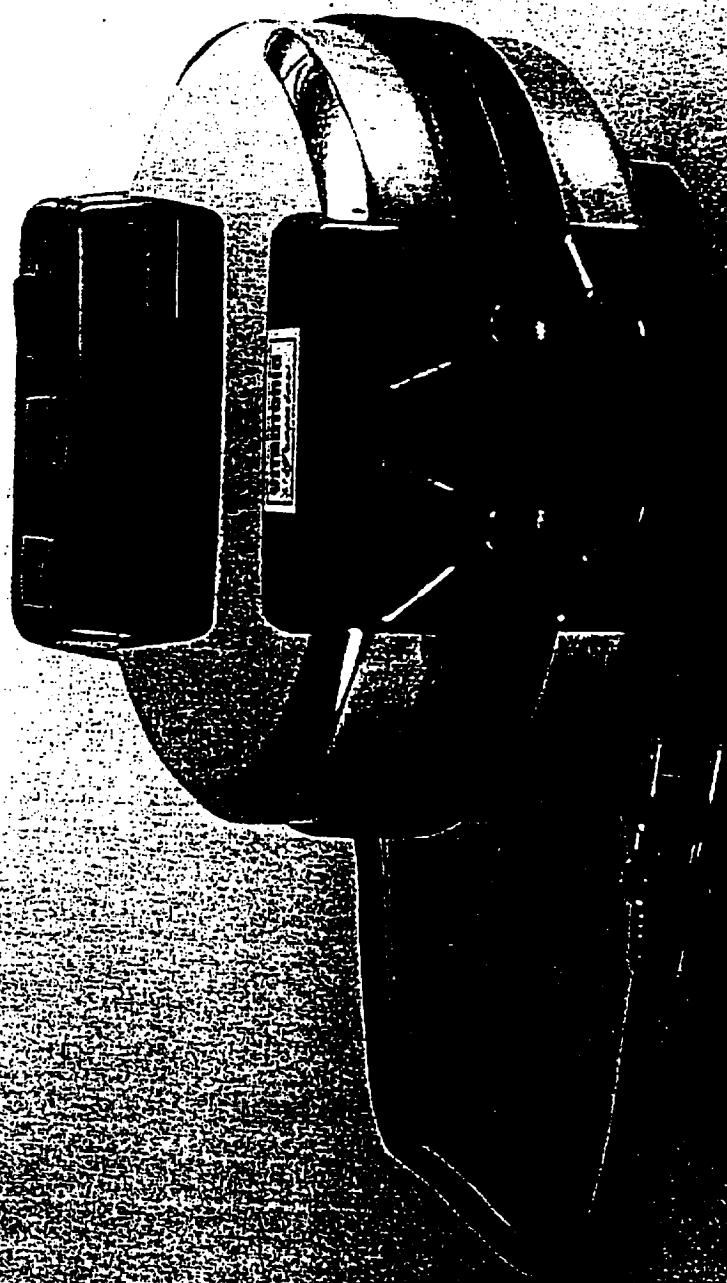
1. Handle/Foot Piece - Fig. 4, Item 1 - Not provided.
2. Handles - Two provided - Same material as Fig. 1, Item 2. Overall dimensions 3-1/4 by 3 by 1-3/4 in. by 3/32 in. thick. One is secured to Top Enclosure and the other to Bottom Enclosure, by a screw. PHENOLIC SDB
3. Control Housing - Same material as Fig. 1, Item 2. Overall dimensions 4-7/8 by 3-1/2 by 2-7/8 in. 3/32 in. thick. Provided with three openings; two are 15/16 in. by 11/16 in. for Pilot Light Lenses, and one is 7/8 in. diameter for Actuator Knob. Secured to Top Enclosure by a screw. PHENOLIC SDB
4. Feet - Two provided - R/C (QMFZ2) Phenolic, Type 04300 (rated 94V-0, 150°C) manufactured by Plastics Engineering Co. Overall dimensions 15/16 in. diameter by 3/4 in. Provided with 3/8 in. diameter hole tapering to 5/32 in. Secured to Bottom Enclosure by a screw.
5. Strain Relief Enclosure - Two piece construction. Same material as Item 4. Overall dimensions 4-5/8 by 3 by 2-5/8 in. by 3/32 in. thick. Secured to Bottom Enclosure by screws.
6. Actuator Knob - Same material as Item 4. Overall dimensions 1-1/8 in. diameter by 9/16 in. by 3/32 in. thick. Secured to thermostat shaft by press fit and cannot pass through opening in Control Housing, Item 1 without the use of tools.



ALTERNATE CONSTRUCTION OF MODELS 1600, 1800 AND 1950 -
FIG. 6 (N97-15917)

General - The alternate construction of Models 1600, 1800 and 1950 are identical to the Model 1950 previously described except as noted below:

1. Handle/Foot Piece - Fig. 1, Item 1 - Not provided.
2. Handles - Two provided - Same material as Fig. 5, Item 2.
3. Control Housing - Same as Fig. 5, Item 3.
4. Feet - Two provided - Same as Fig. 5, Item 4.
5. Strain Relief Enclosure - Same as Fig. 5, Item 5, except overall dimensions 4-5/8 by 4 by 2-5/8 in. by 3/32 in. thick.
6. Actuator Knob - Same as Fig. 5, Item 6.



IMPORTANT SAFEGUARDS

Use your Vitantonio electric waffler safely for many years to come. Please observe basic safety precautions which apply to all electric appliances, including the following:

1. Read all instructions contained in this booklet.
2. Completely unwrap cord from its storage position before plugging in.
3. Close supervision is necessary when any appliance is used by or in the presence of children.
4. Do not touch hot surface. Use handles or knobs.
5. To protect against electrical hazards, do not immerse cords, plug, or appliance in water or other liquid.
6. Remove plug from outlet when not in use and before cleaning. Allow to cool before handling, cleaning, or storing appliance.
7. Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions or has been damaged in any manner. Return appliance to manufacturer or area repair center for examination, repair, or adjustment.
8. Do not let cord hang over edge of table or counter or touch hot surfaces.
9. The use of accessory attachments not recommended by the appliance manufacturer may cause injuries.
10. Do not use outdoors.
11. Do not place appliance on or near a hot gas or electric burner or in a heated oven.
12. Do not use appliance for other than its intended purpose. Manufactured for household use only.

SAVE THESE INSTRUCTIONS

USA

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CONFIDENTIAL

UL DOCUMENTS

FILE: E78547

VOL. 1 APPENDIX

APP. A
APP. B
APP. B1
APP. C
APP. C1
APP. D
APP. D1
SEC. GEN

CONFIDENTIAL

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File E78547

Vol 1

Issued 08/04/95

Revised 03/26/98

**FOLLOW-UP SERVICE PROCEDURE
(TYPE R)**



**HEATERS, COOKING APPLIANCES, HOUSEHOLD
(KNUR)**

Manufacturer: VITANTONIO PRODUCTS, DIV OF
(207829-002) KADEE PRODUCTS LTD
160 NORTHFIELD RD
BEDFORD OH 44146

Applicant: VITANTONIO PRODUCTS, DIV OF
(207829-001) KADEE PRODUCTS LTD
6225 COCHRAN RD
SOLON OH 44139

Listee: SAME AS APPLICANT
(207829-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

This PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC. and is not transferable.

UNDERWRITERS LABORATORIES INC.

S. Joe Bhatia
Vice President, Follow-Up Services



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File E78547

Vol 1

Issued 08/04/95
Revised 06/20/96

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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)



HEATERS, COOKING APPLIANCES, HOUSEHOLD
(KNUR)

Manufacturer: VITANTONIO PRODUCTS, DIV OF
(207829-001) KADEE PRODUCTS LTD
6225 COCHRAN RD
OLON OH 44139

Applicant: SAME AS MANUFACTURER
(207829-001)

Listee: SAME AS MANUFACTURER
(207829-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

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UNDERWRITERS LABORATORIES INC.

S Bhatia
S. Joe Bhatia
Vice President, Follow-Up Services

N

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(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

L I S T I N G M A R K

PROCUREMENT:

All Listing Marks must be obtained from a supplier authorized by Underwriters' Laboratories, Inc., unless the Listing Mark is molded, cast, die-stamped, rubber stamped, silk screened, or reproduced by the manufacturer himself.

COMPOSITION & ELEMENTS:

1. UL in circle symbol
2. The word "LISTED"
3. The assigned control number(s): 43G5
4. Product identity. Consists of the following:

"BUN WARMER" "CORN POPPER" "GRIDDLE" "COFFEE MAKER"
"HOUSEHOLD COOKING APPLIANCE" or the name of the specific type of product as shown in the individual Listings

If the first 3 elements are directly applied to the product by die-stamping, ink-stamping, silk screening, molding, etching or similar processes, or if they are part of a name-plate which includes either the electrical rating or the catalog or model designation, the product identity may appear elsewhere on the product.

Minimum size is not specified, as long as the Listing Mark is legible. The first 3 elements must be in close proximity.

APPLICATION:

For use on Listed products only. Not to be used on Recognized Components.

The Listing Mark, when used by the manufacturer, shall consist of the above elements and shall appear on the product.

SEPARABLE LISTING MARK:

If separable Listing Marks are employed, all four elements are required to be part of that sticker, label, decal, etc. (A separable Listing Mark is one which bears only the Listing Mark Information, and is separately applied.)

Heaters, Cooking Appliances, Household

A P P E N D I X AINSTRUCTIONS TO THE INSPECTOR
FOR EXAMINATION OF PRODUCTINSPECTOR:

All samples selected for inspection shall be examined for the applicable features of Appendix A and then for the features in the specific description.

INTERNAL WIRING

Protection of Wiring - All wire and wire insulation in the product shall be protected from damage. This is commonly achieved by securement, segregation, and routing to keep the wire away from parts or assemblies which can damage the wire or insulation. Internal wiring which might make contact with metal parts shall be protected from sharp metal edges. This may be accomplished by rounding or deburring the metal, use of a Recognized Component bushing, or other construction described in the Procedure.

If the wiring is located where it may be in proximity to combustible material, it shall be protected by the method(s) described in the individual procedure section.

Conductors shall be examined for evidence of damage. Faulty practices which can cause damage to conductors and/or insulation include:

- A. Improper application of crimped connectors.
- B. Improper insulation removal.
- C. Overheating of conductor insulation because of routing or contact with hot surfaces during or after installation.
- D. Use of wire in which the insulation has been cut, cracked, crushed, abraded, etc.

Constructions within the appliance which may cause damage to conductor insulation include:

- A. Moving parts such as rotating or reciprocating cams, shafts, and the like, as well as removable covers, hinged doors.
- B. Sharp edges and corners (including screw threads, burrs, points, stamped metal edges).
- C. Heat sources (including lamps, heating elements, etc.).
- D. Assemblies which clamp or squeeze wire insulation, unless described in the Procedure.

Heaters, Cooking Appliances, Household

Loose Strands - Ends of stranded conductors shall have all strands contained to prevent contacting of, or reduction of spacing to, other live parts or dead metal.

Typically, this can be accomplished by:

- A. Tinning.
- B. Inserting properly into suitable wire connectors.
- C. Crimped connectors and/or eyelets with the crimp containing all strands.
- D. Solder lugs.

Solder Connections - All solder connections shall be made mechanically secure before soldering.

Some typical examples of mechanical securement are:

- A. Twisting wire around a solder post which has a change in dimension or restriction so unsoldered wire will not slip off post.
- B. Inserting wire through an opening.

SECUREMENT OF PARTS

In the mounting or supporting of small, fragile insulating parts, screw or other fastenings should not be tight enough to cause cracking or breaking of these parts with expansion and contraction. Generally, such parts should be slightly loose.

Uninsulated live parts, components which support live parts, and dead metal parts, shall be prevented from rotating, or shifting if movement will result in twisting or stress of internal wiring or connections, or spacings being reduced below that specified in the Procedure.

A switch, a lampholder, an attachment plug receptacle, a motor attachment plug cap, or other component subject to handling by the user shall be mounted securely and prevented from rotating.

Exception: Based on engineering considerations certain constructions of securely mounted push button or plunger type switches, and lampholders of the type in which the lamp cannot be replaced (such as a neon pilot or indicator light in which the lamp is sealed in a non-removable jewel) may be excepted from the above. These constructions are described in the Procedure. However, in no case will unacceptable spacings be allowed.

Heaters, Cooking Appliances, Household

Some means commonly used to prevent movement are:

- A. Lockwasher.
- B. Matched keying of the component and its mounting.
- C. Two or more fasteners (screws, rivets, pins, etc.).
- D. Strap, clip, or pin fitted into an adjacent part.
- E. Physical barrier (molded boss, side of enclosure, adjacent component, etc.) which bears against the component.

Heating Elements - A heating element shall be supported in the manner described in the individual procedure section.

LENGTH OF SUPPLY CORD

Unless the minimum and maximum cord lengths are specified in the Procedure section, the inspector shall refer to the table below when verifying the length of the supply cord.

Type of Heating Appliance	Kind of Cord Connection	Minimum Acceptable Length		Maximum Acceptable Length	
		Feet	Meters	Feet	Meters
Household cooking and warming appliances	Coffee or tea pot or other liquid-heating appliance with a pouring spout arranged so that to pour the liquid, the unit must be lifted from or tilted with reference to the supporting surface	2.0	0.6	3.0	0.9
	Counter top or tabletop				
	Attached cord or separable cord set				
	Coiled (retractile) cord set			3.0	0.9
All household cooking or warming appliances not covered above	Attached cord or separable cord set	2.0	0.6	7.0	2.1
	Attached cord or separable cord set	2.0	0.6	7.0	2.1

* Measured external to the appliance and including the fittings but excluding the blades on the attachment plug cap.

* Measured with the cord relaxed on a horizontal surface.

Measured with the cord fully extended, the length is not to exceed 7.0 feet (2.1 meters) and is not to be less than 6.0 feet (1.8 meters).

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Heaters, Cooking Appliances, Household

CASUALTY CONSIDERATION

Except as described, an appliance shall have no sharp edges, burrs, points, or spikes inside or outside which may cause injury during use or during cleaning operations.

POLARIZED APPLIANCES

An appliance intended for permanent connection to the source of supply and having an identified terminal or lead; and an appliance employing a power supply cord with a polarized attachment plug cap (excluding 250 volt, 2-pole and 250 volt, 3-pole, 3-phase), utilizing the components indicated, shall have the components wired as follows:

Lampholders and Receptacles - The screw shell (identified) terminal or lead of a lampholder, and the identified terminal or lead of a receptacle, shall be connected to the identified (grounded) conductor or terminal within the product.

Switches (Single Pole) - Unless otherwise specified in the Procedure, a manual single pole switch, and an automatic control with a marked "off" position, shall not be connected to the identified grounded conductor.

GROUNDING

Cord Connected Appliance - The equipment-grounding conductor of the flexible cord:

- A. Shall be finished to show a green color or green with one or more yellow stripes.
- B. Shall be connected to the grounding member of the attachment-plug cap; and
- C. Shall be conductively connected to (1) all exposed dead metal parts of the product and to (2) all dead metal parts within the enclosure that are specified in the description as being connected to the grounding conductor.

The grounding-conductor shall be connected by a screw or other reliable means as described in the Procedure, which serves no other purpose and which is not liable to be removed during any servicing operation. Solder alone shall not be used for securing this conductor.

Heaters, Cooking Appliances, Household

NOTE:

1. The grounding member of the attachment-plug cap mentioned in Item B of the preceding paragraph shall be fixed in position with respect to the cap.
2. The screw mentioned in Item C of the preceding paragraph shall be of a corrosion-resistant metal or shall be protected against corrosion.

Permanently-Connected Appliance - In a permanently-connected appliance (1) all exposed metal parts, and (2) all dead metal parts within the enclosure which are specified in the description as being connected to the grounding conductor, shall be conductively connected to:

- A. The point of the enclosure at which the metal raceway of the power supply circuit will be connected, and
- B. The equipment-grounding field-wiring terminal or lead.

The equipment-grounding terminal or lead grounding point shall be connected to the frame or enclosure by a positive means, such as by a bolted or screwed connection. The grounding connection shall reliably penetrate nonconductive coatings, such as paint or vitreous enamel. The grounding point shall be so located that it is unlikely that the grounding means will be removed during normal servicing.

A wire-binding screw intended for the connection of an equipment-grounding conductor shall have a green-colored head that is hexagonal shaped, slotted, or both.

A pressure wire connector intended for connection of an equipment-grounding conductor shall be green colored, or be identified by the marking "G", "GR", "GND", "Ground", "Grounding", or the like. Or, if authorized in the Procedure, it may be identified by a suitable marking on a wiring diagram on the appliance.

The wire-binding screw or pressure wire connector shall be so located that it is unlikely to be removed during normal servicing of the unit.

Heaters, Cooking Appliances, Household

MARKING

The appliance shall be plainly marked where it will be readily visible after it has been installed as intended, and shall include the name of the Listee (or recognizable portion thereof, or trade name or trademark if authorized in the Procedure, a distinctive catalog number or equivalent designation, and the electrical rating.

A portable appliance may have the marking located anywhere on the product provided that tools are not needed to gain access to the nameplate.

Special markings (other than those described above) when required shall be as specified in the Procedure.

Heaters, Cooking Appliances, Household (KNUR)

**INSTRUCTIONS TO THE INSPECTOR
FOR EXAMINATION OF PRINTED WIRING BOARDS
AND PRINTED WIRING BOARD ASSEMBLIES**

As part of the inspection of the products covered by this Procedure, inspect the printed wiring boards and/or the printed wiring board assemblies employed in the product as indicated below:

I. Printed Wiring Boards. When printed wiring boards are received at the factory without the components mounted and soldered in place, an inspection as outlined below shall be conducted as follows:

- A. The printed wiring board shall be as specified in this Procedure.
- B. If the soldering operation is performed at the factory and the soldering temperature and dwell time are given in the Procedure, the temperature and dwell time shall also be checked to determine that they do not exceed the limits specified.

II. Printed Wiring Board Assemblies. If the printed wiring boards are received at the factory with the components already mounted and soldered in place, ("Assemblies") an inspection shall be conducted as follows:

- A. The printed wiring board shall be as specified in the Procedure.
- B. A visual examination shall be made for mechanical damage or evidence of exposure to excessive temperatures that may have occurred during the soldering operation. The base material and the conductors shall be examined for unacceptable features as indicated below.

1. Conductors, Terminal Pads, and Tabs

- (a) Reduction in cross-section, such as scratches, nicks, pin holes, tearing

Heaters, Cooking Appliances, Household (KNUR)

- (b) Loosening or lifting of printed wiring conductor, pad, or tab from the base material
- (c) Sections missing or damaged
- (d) Blistering
- (e) Breaks

2. Base Material

- (a) Warping
- (b) Cracking
- (c) Charring, blistering, or other heat damage due to solder process
- (d) Delamination

1.1.1 Sample Selection - Samples of printed wiring boards and/or printed wiring board assemblies shall be selected at random as shown under "First Selection" in the following table.

The lot is to be rejected when any one of the unacceptable features is noted.

Size of Incoming Lot For Each Type	No. of Board Samples To Be Examined	
	First Selection	Reselection
1 - 500	8	16
501 - 200	13	26
2,001 - 35,000	20	32
Above 35,000	32	50

* - A lot comprises all printed wiring board assemblies of the same type at the manufacturer's factory at the time of the inspector's visit, which have not been previously checked by the inspector. A lot may also comprise all of the same type since the inspector's previous visit or inspection.

- A type is a printed wiring board assembly meeting all the following:

- 1. Same vendor who mounts and solders the components
- 2. Same board manufacturer and type or catalog number
- 3. Same size
- 4. Same pattern
- 5. Same component

Heaters, Cooking Appliances, Household (KNUR)

IV. Resubmittal of Rejected Lots - The manufacturer may want to screen out all printed wiring boards or printed wiring board assemblies in the rejected lot and resubmit it. The inspector shall then select samples for inspection in accordance with the subcolumn headed "Reselection," based on the number in the original lot size. When any one of the boards of the resubmitted lot is noted to be unacceptable in accordance with the criteria stated above, the lot shall be rejected and may not be used in the Listed or Recognized product.

Heaters, Cooking Appliances, Household

A P P E N D I X B

INSTRUCTIONS TO THE INSPECTOR

FOR SAMPLE PICK UP

INSPECTOR:

Immersible Products - Once each year early in the third quarter select one sample from each group as specified on Page 2. If more than one model is shown within a group, continue to select a different model each time.

Other Types or Materials - Other types of cooking appliances, or cooking appliances employing certain constructions or materials may also require follow-up tests. If applicable, model designation and sampling quantity will be specified in Special Appendix B.

The selected samples shall be appropriately identified, tagged to indicate manufacturer and model number and forwarded to the Follow-Up Services Department, Northbrook Office.

GENERAL:

Immersible Products - Cooking appliances requiring immersion tests on follow-up are those which are:

- A) Liable to be immersed in water for cleaning and not marked "not suitable for immersion" or equivalent; and
- B) Intended to be immersed in water for cleaning and marked "Do not immerse beyond this point" or equivalent.

Heaters, Cooking Appliances, Household

SAMPLE SELECTION GUIDE

IMMERSIBLE PRODUCTS:

Group
No.

Product

Proc. Sec.
or Date

Not applicable.

OTHER TYPES OR MATERIALS:

If applicable, samples to be selected from this category will be specified in Special Appendix B.

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Heaters, Cooking Appliances, Household

S P E C I A L A P P E N D I X B

SPECIAL INSTRUCTIONS TO INSPECTOR

FOR SAMPLE PICK UP

RESERVED FOR FUTURE USE

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SPECIAL APPENDIX B1

SPECIAL INSTRUCTIONS TO INSPECTOR

FOR SAMPLE PICK UP

SAMPLE PICK UP FOR COOL-DOWN LEAKAGE CURRENT TESTS

Certain immersible appliances covered by this Procedure require cool-down leakage current follow-up tests after humidity conditioning.

Once each year, in the third quarter, three (3) complete identical samples of any one model number of each type of immersible appliance (skillet, griddle, dutch oven, etc.) specified in the groups on page 2 shall be selected up to a maximum of six (6) samples (two types) per year. #

In the selection of samples, priority shall be given to the groups I, II, III, etc., in that order. In the event that samples of a particular type of immersible appliance are not specified in or are not available in group I, samples from group II, III, etc., in that order, should be substituted.

If there are more than one style of any type of appliance in the groups (i. e. skillets-style A; skillets - style B, etc.), each style shall be considered as a separate type for purposes of sample selection.

The particular type and model numbers selected by the inspector each year shall be varied in order to assure that over a period of time all types and model numbers will have been selected. The inspector shall, therefore, keep a record of which types of appliances and which model numbers are selected each year.

The samples shall be tagged to indicate the manufacturer, catalog or model number, and "For Cool-Down Leakage Current Test", and forwarded to the Follow-Up Services Department, Melville Office.

ADDITIONAL SAMPLES

If test failures are obtained at Melville, the inspector will receive, from the Follow-Up Services Department, a request for additional samples. The quantity and type of samples will be specified at that time.

Note: -

These samples are in addition to those normally selected in the third quarter for immersion tests, as requested in Appendix B.

Heaters, Cooking Appliances, Household

SAMPLE SELECTION GUIDE

FOR COOL-DOWN LEAKAGE CURRENT TESTS:

<u>Group Number</u>	<u>Type of Appliance</u>	<u>Catalog or Model No.</u>	<u>Proc. Sec. or Date</u>
1	Griddle	1250 or 1260	8

Heaters, Cooking Appliances, Household

APPENDIX C

INSTRUCTIONS FOR

FOLLOW-UP TESTS AT UL

IMMERSIBLE PRODUCTS:

Samples forwarded to the Follow-Up Services Department for the "Immersion Test" shall be tested in accordance with the current Standard appropriate to the product as shown in the Index To Testing.

INDEX TO TESTING

<u>Product</u>	<u>Standard</u>
Coffee makers, tea pots, water kettles, carafes, soup warmers, etc.	UL 1082
Skillets, frying pans, sauce pans, griddles, deep fat fryers, waffle or sandwich makers, etc.	UL 1083
Other types	UL 499

OTHER TYPES OR MATERIALS:

Where applicable, tests on samples selected from this category will be described in Special Appendix C.

(File behind App. C)

Heaters, Cooking Appliances, Household

SPECIAL APPENDIX C

SPECIAL INSTRUCTIONS FOR

FOLLOW-UP TESTS AT UL

THERMOPLASTIC ENCLOSURE TESTS

General - The samples shall be subjected only to the tests which are specified under "Index to Testing" as being appropriate to the product.

MOLD STRESS EVALUATION

Method

One sample shall be placed in an oven for a period of seven hours and, unless otherwise specified, maintained at a uniform temperature not less than 70 C.

Basis For Acceptability

There shall be no softening of the material, as determined by handling immediately after the heating in the oven. A slight amount of shrinkage or warpage is not considered to be objectionable if there is no exposure of uninsulated live metal parts, but any cracking of the material is not acceptable.

STRAIN RELIEF TEST

Method

One sample in the "as received" condition and the one sample which was subjected to the Mold Stress Evaluation test shall be subjected to the following. With all samples at room temperature, a 35 pound weight shall be suspended from the power supply cord for one minute.

Basis for Acceptability

There shall be no evidence of strain being transmitted to the internal connections of the power supply cord and there shall be no damage to the cord insulation.

Heaters, Cooking Appliances, Household

RESISTANCE TO IMPACT

Method I

A smooth steel sphere, two inches in diameter and weighing approx. 1.18 pounds, shall be allowed to fall freely from rest through the distance required to cause it to strike the surface under test with an impact of five foot-pounds. For surfaces other than the top of an enclosure, the steel sphere shall be suspended by a cord and allowed to fall as a pendulum through the distance required to cause it to strike the surface with the specified impact.

Method II

One complete sample of the appliance is to be dropped three times from a height of 3 feet onto a hard-wood surface, causing the appliance to strike the surface in a different position each drop.

Basis For Acceptability I and II

Cracking of the enclosure shall not expose any live parts to accidental contact, nor affect the function of any safety or constructional features such as strain relief, etc.

FLAME RESISTANCE

Method

Both samples (i.e. the one not aged and the one previously subjected to the Mold Stress Evaluation Test, and then returned to the oven for a total conditioning time of seven days), shall be subjected to this test.

Three sections of the appliance enclosure most liable to be ignited are to be selected, as judged by their proximity to an internal component (such as a coil winding, switch, splice etc.) whose failure by arcing or burning may ignite the enclosure or as judged on the basis of comparable factors. The appliance is to be supported in its normal operating position in a draft-free location, and nonthermoplastic portions of the enclosure in contact with or fastened to the thermoplastic portions shall not be removed; and, insofar as possible, the internal mechanism shall be in place. The flame of a Bunsen burner shall be adjusted to have a 3/4 inch of yellow flame with no blue cone. Two 30-second applications of the tip of the flame shall be made to each section of the enclosure selected as indicated above, with a one minute interval between the applications.

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Basis For Acceptability

The material shall be self-extinguishing to the extent that it will not continue to burn for more than one minute after the second application of the test flame. The material is not acceptable if complete destruction of the sample occurs during the application of the flame or within one minute after the application of the flame. The extent of burning cannot be definitely specified, because the nature of the plastic and the formation and thickness of the enclosure have a considerable bearing upon the result obtained.

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INDEX TO TESTING

<u>Cat. No.</u>	<u>Mold Stress</u> <u>(Oven Temp.)</u>	<u>Strain</u> <u>Relief</u>	<u>Resistance</u> <u>To Impact</u>	<u>Flame</u> <u>Res.</u>	<u>Abnormal</u> <u>Operation</u>
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File

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Heaters, Cooking Appliances, Household

SPECIAL APPENDIX C1

SPECIAL INSTRUCTIONS FOR

FOLLOW-UP TESTS AT UL

IMMERSIBLE APPLIANCES

COOL-DOWN LEAKAGE CURRENT TESTS

Samples forwarded to the Follow-Up Services Department for the Cool-Down Leakage Current Test shall be tested in accordance with the current edition of UL 1083.

If test failures occur, Melville Engineering Department shall ask Follow-Up Services Department to request that the inspector select additional samples for shipment to Melville for further testing. The quantity and type of samples shall be specified at that time.

Heaters, Cooking Appliances, Household

A P P E N D I X DINSTRUCTIONS FOR
TESTS AND/OR INSPECTION AT THE FACTORY
INSPECTOR

The manufacturer is required to have the test equipment specified below. During the regular visits to the factory, verify that the instruments have been calibrated and the equipment is functioning properly, and except as noted on Page 3, that the manufacturer is performing the Dielectric Withstand Test on 100% of production.

Also, review the manufacturer's records to assure that the test is being conducted and appropriate action is taken with respect to failures and rejections.

RESPONSIBILITY OF THE MANUFACTURER

1. Except as noted on Page 3 one hundred percent of production of each appliance covered by this Procedure shall be subjected to the Dielectric Withstand Test, Method I or Method II.

2. Periodically, the manufacturer shall determine that the test equipment is functioning properly.

3. The instruments used for this test shall be calibrated at regular intervals (at least once annually).

I MANUFACTURER'S TEST EQUIPMENT:

The Dielectric Test equipment used by the manufacturer shall contain the following features:

1. The output transformer shall be rated 500 volt amperes or greater, or there shall be a voltmeter across the output terminals.

2. There shall be a visible indication (to the operator) of the test voltage (voltmeter, lamp, etc.).

3. There shall be either a visible or audible means (to the operator) of indicating a breakdown.

4. There shall be manual external reset switch which must be operated following a breakdown, or there shall be provision to automatically reject the failed unit.

Heaters, Cooking Appliances, Household

I. TEST TO BE CONDUCTED:

DIELECTRIC WITHSTAND TEST

General - For either test, the appliance may be in the heated or unheated condition.

Method I

A 1000 volts, rms 60 Hz, essentially sinusoidal potential, shall be applied for one minute between live parts and dead metal parts.

Method II

Alternatively, a 1200 volts rms 60 Hz essentially sinusoidal potential shall be applied for one second between live parts and dead metal parts.

Basis For Acceptability

Each appliance shall withstand the applied potential without breakdown for the required time duration.

III. MANUFACTURER'S RECORDS:

The manufacturer shall maintain records of test performance and corrective action taken on rejections. These records shall be readily available to the inspector.

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Based on Engineering judgement, the production line Dielectric Withstand Test is not required to be performed on the models tabulated below:

Product

Model Designation

Proc. Sec. -
or Date

Not applicable (Test required on all products)

File

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S P E C I A L A P P E N D I X D

SPECIAL INSTRUCTIONS FOR
TESTS AND/OR INSPECTION AT THE FACTORY

RESERVED FOR FUTURE USE

Heaters,
Cooking Appliances, Household

S P E C I A L A P P E N D I X D 1

SPECIAL INSTRUCTIONS FOR
TESTS AND/OR INSPECTION AT THE FACTORY

The following requirements apply to immersible cooking appliances (skillets, fry pans, etc.).

I. DUTIES OF THE INSPECTOR

- A. The UL Inspector shall act as auditor of the required records and shall observe the tests, whenever possible, during visits to the plant. The inspector's duties shall include, but not be limited to, the following:
1. Inspect the records of the Quality Control Department of the Manufacturer, to assure UL that the proper information is being recorded.
 2. Inspect the instruments being used by the manufacturer and verify that they have been calibrated and are in good working order.
 3. Report to the Follow-Up Services Department by means of a Variation Notice (VN) if:
 - a. the manufacturer fails to comply with Section II - "Manufacturer's responsibilities".
 - b. the records maintained by the manufacturer are not as described.
 4. When applicable, forward samples to the designated UL Test Station (See "Tests at UL", Special App. C).

II. MANUFACTURER'S RESPONSIBILITIES

The manufacturer is required to have a quality assurance program operating in his factory, designed to assure that his products comply with all of UL's requirements.

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Cooking Appliances, Household

III. MANUFACTURER'S TEST EQUIPMENT

The equipment specified on Page 6 may be used by this manufacturer in conducting the Leakage Current Tests.

A. Tests to be Conducted

1. Leakage Current Test - Production Line -
This test shall be performed on completed units each day. The leakage current shall not exceed 0.5 milliamperes. The manufacturer shall select an appropriate number of units to assure himself that his production meets UL requirements. The number of units tested and the test method shall be determined by the manufacturer.
2. Leakage Current Test - After Humidity Conditioning -
This test shall be performed on completed units selected once each month. The number of units to be tested is determined by the manufacturer. The samples shall be tested for leakage current within 48 hours of production in accordance with the following method:
 - a. The test circuit is shown in Illustration 1. The supply voltage is to be 120 volts.
 - b. With the control thermostat closed and set at its highest position and with Switch S1 open, the sample is to be connected to the measuring circuit. Leakage current is to be measured using both positions of Switch S2.
 - c. Switch S1 is then to be closed, energizing the sample, and within a period of five seconds, the leakage current is to be measured using both positions of Switch S2.
 - d. Leakage current is to be monitored during the interval from 5 seconds to 10 minutes of operation. The maximum leakage current during this time is to be recorded. Both positions of Switch S2 are to be used.
 - e. The orientation of the plug cap of the skillet control in the test receptacle, and the position of S2 shall be such that the thermostat contacts

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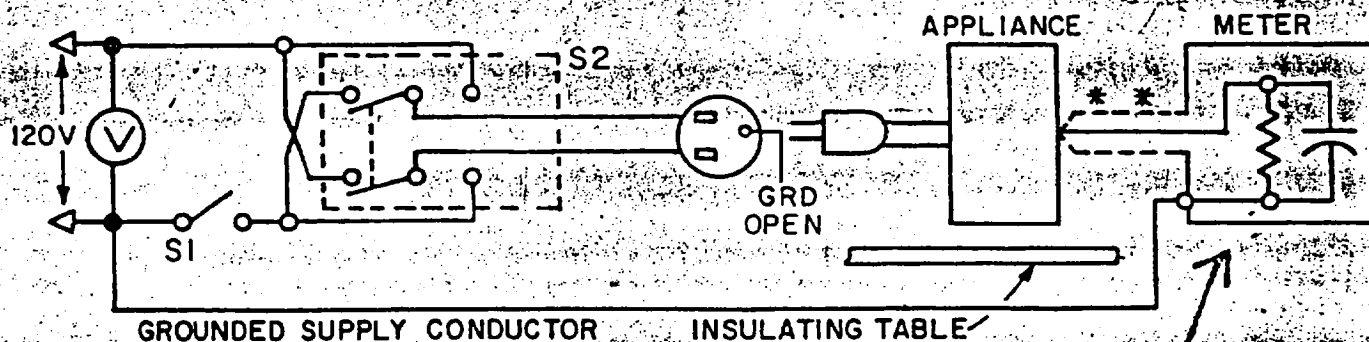
open the grounded supply conductor. After the ten minutes of operation at the highest setting, the thermostat shall be turned either to:

- (1) the "off" position (for a single pole control), or
- (2) the lowest temperature setting permitting single pole operation (for a double pole control).

f. The values of leakage current are to be continuously observed until the temperature at the center of the appliance cooking surface is less than 90°C (194°F) and the observed leakage current is decreasing.

Illustration #1

LEAKAGE CURRENT MEASUREMENT CIRCUIT



** Probe with shielded lead.

Leakage current meter with 1500 resistive input impedance shunted by a capacitance of 0.15 mfd. Error not more than 5% at an indication of 0.5 ma.

Following this test, the samples shall be exposed to a relative humidity of $88\% \pm 2\%$ at a temperature of $32^{\circ}\text{C} \pm 2^{\circ}\text{C}$ continuously for 28 days. (Note: At the manufacturer's option, a 56 day humidity conditioning period may be substituted for the 28 day period.) Following the humidity conditioning period, the cooking appliances shall again be subjected to the leakage current test. The acceptance values for this test are as follows:

SP

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MAXIMUM ACCEPTABLE LEAKAGE CURRENT IN MILLIAMPERES

Time Period

	S-1 Open		S-1 Closed		S-1 Closed
			5 Sec. -		Control Open
	0-5 Sec.		10 Min.	At 10 Min.	Cool Down Period
Conditioning					
Test Conducted within 48 hours of Production	.5	.5	.5	.5	.5
After 28 Days In Humidity Chamber	.5	.5	2.5	.5	2.5
After 56 Days In Humidity Chamber (if manufacturer selects this option in lieu of 28 days)	.5	.5	5.0	.5	5.0

B. Instrumentation/Calibration Requirements

Test equipment shall be checked for operation daily. All instruments involved with the documented performance of the required tests shall be calibrated at periods not exceeding twelve (12) months (or when observed to operate erratically). This can be done by the manufacturer or an outside laboratory. In either case, the calibration should be by comparison with a standard that is traceable to the National Bureau of Standards. Certification of this calibration shall be maintained by the manufacturer.

C. Records to be Maintained by the Manufacturer

The manufacturer shall maintain records for the following items and make these records available to UL personnel. These records shall be retained for a minimum of six (6) months from the date of production.

Heaters,
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1. Tests Performed - An indication that the required daily and monthly tests have been conducted.
2. Failures - This record should include the subsequent disposition of products which do not meet UL requirements.
3. Corrective Action - This information should appear for each failure encountered.

Heaters, Cooking Appliances, Household

MANUFACTURER'S TEST EQUIPMENT: SPECIFIC

MANUFACTURER'S LEAKAGE CURRENT MEASUREMENT INSTRUMENT

The meter specified below has been evaluated and found to be acceptable for use in conducting the Leakage Current Test after humidity conditioning:

Simpson Model 229-2.

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S E C T I O N G E N E R A LPRODUCT COVERED:

Electric Household Cooking Appliances

GENERAL:

The construction features described in this Section General apply to all products covered by this volume unless otherwise specified in a specific section.

ELECTRICAL SPACINGS:

Minimum spacings of at least 1/16 in. (1.6 mm) are reliably maintained through air and over the surface of insulating materials between live parts of opposite polarity and between live parts and dead-metal parts.

For products employing a thermoplastic enclosure rated 94 HB, the following spacings are maintained between interior surfaces of the thermoplastic enclosure and uninsulated live parts:

<u>Live Part</u>	<u>Spacings, In. (mm)</u>
Non-arcing part	1/32 (0.79)
Arcing part ϕ	1/2 (12.7)

ϕ - Examples of arcing parts are switch contacts, relay contacts and the interface of motor brushes on a commutator.

CORROSION PROTECTION:

All metal parts are suitable protected against corrosion by painting, plating or the equivalent.

SHARPNESS OF EDGES:

All edges and corners of the frame, enclosure, guards, etc. exposed during normal use or maintenance or which may be contacted by internal wiring are smooth and well rounded.

INTERNAL WIRING:

All internal wiring is R/C (AVLV2) AWM provided with thermoplastic insulation 1/32 in. (0.79 mm) thick minimum with a voltage rating no less than the rated voltage of the product. All wiring is reliably routed away from moving parts by use of baffles, lead lengths and/or wire ties. All soldered connections are made mechanically secure before soldered. See individual sections for gauge and temperature ratings of leads.

MG/RWV:mt
PC lbry:dtc

INTERNAL WIRING TERMINATIONS:

All quick-connect type terminals and crimp type wire connectors are copper alloy. Insulated terminals and connectors are Listed. Spade quick-connects are provided with detent which engages holes or recess in component terminal to provide secure snap-action connection. Open end type spade connectors are provided with up-turned ends or are "C" shaped so they snap-fit around a terminal screw. All wire connectors are suitable for the number and gauge of wires involved.

SEPARATION OF CIRCUITS:

For all products employing low voltage (Class 2) circuits, the following applies:

Insulated conductors of one circuit (line or low) are routed and reliably retained so they cannot contact 1) uninsulated live parts of the other circuit 2) insulated conductors of the other circuit unless the insulation of both conductors is suitable for the highest potential (volts) involved.

Uninsulated live parts of low and line voltage circuits are spaced from one another as though they were parts of opposite polarity.

GROUNDING:

For products provided with a grounding type attachment plug cap, the grounding conductor of the power supply cord is terminated by a separate screw which serves only to secure the grounding conductor.

For all products, all dead-metal parts are reliably connected to the point of attachment of the supply grounding means by metal-to-metal contact, assembly screws or welds. Lock washers, or equivalent, are provided on assembly screws/nuts where painted surfaces are involved to reliably break the paint. Grounding jumper leads, if employed, are either 1) of the same gauge size as the leads to the component, 2) of the same gauge size of the power supply cord or 3) as noted in the individual section.

SUPPLY CONNECTIONS:

All products are provided with an attached or detachable flexible power supply cord and attachment plug. See individual sections for specific gauge, cord type, and cord length.

Lengths of cord connection is measured external to the product and including the fittings but excluding the blades on the attachment plug.

MG/RWV:mt
PC lbry:dtc

POLARIZATION: ** Effective - January 1, 1993 **

Polarization is provided for all products with an attached or separable power supply cord which employ a manually-operated, line-connected, single pole switch for appliance "On/Off" operation. Polarization is also provided for all thermostatically controlled products which include an "Off" marking.

If a product employs an Edison-base lampholder and/or receptacle, see individual sections for construction details.

For products which require polarization 1) the plug cap must be either a two-blade type with one blade wider than the other or a three blade (grounding) type and 2) the "On/Off" switch must be connected to the unidentified conductor of the power supply cord. The unidentified conductor of a two-blade type is not ribbed and provided at narrow blade. The unidentified conductor of three blade type is black.

Polarization instructions are provided with all products which employ a polarized two blade plug cap.

Separable (detachable) power supply cords which require polarization employ both plug cap and receptacle of a polarized type.

COMPONENTS MOUNTING:

All components are securely mounted and prevented from rotation by a means other than friction alone. For example, components may be mounted by two screws or a single screw and locator pin. Stem mounted components may be mounted in keyed openings, openings with flat sides or provided with a lock washer on the stem between the component body and its mounting surface.

PRINTED WIRING BOARDS:

All printed wiring boards are any R/C (ZPMV2), used within solder time and temperature limits. See individual sections for flame rating and minimum temperature rating. Unless otherwise specified, all internal wiring and components are mechanically secured through openings of wiring board and soldered.

PRODUCT MARKINGS:

General - All described markings are permanent, legible, and readily visible. Examples of permanent markings are molded, etched, die-stamped, silk-screened, or ink-stamped with permanent type ink directly onto the product or on separate plates secured by mechanical fasteners. Markings may also be molded-in in raised letters or appear as adhesive secured labels. The labels are R/C (PGDQ2) Marking and Labeling Systems suitable for the surface to which they are applied and are suitable for occasional *exposure to water or R/C (PGJI2) marking system using an Avery *Dennison Label (Print Alert LP White) printed with a *Hewlett-Packard LaserJet III using 92295A cartridge. Additional specifications may be included in a description contained in the individual Sections.

See the individual sections for the locations of the markings.

The markings include the Listee's name or trademark, the product's catalog (model or part) number, electrical rating and the date of manufacture. For products manufactured at more than one location, a location of manufacture marking is also provided.

Unless otherwise stated in individual sections the date of manufacture appears in code as follows:

Consists of eight numbers, the first number indicates the quarter of manufacture and the next number indicates the year, the last 6 digits are the serial number.

Example: 33123456 would indicate the appliance was manufactured in the third quarter of 1993.

or

Consists of four numbers, the first two numbers indicate the month of manufacture and the last two numbers indicate the year.

Example: 0892 would indicate the appliance was manufactured in August 1992.

Each product is also marked "Household Use Only" or "Household Type", minimum 3/32 in. (2.4 mm) in height.

CAUTIONARY MARKINGS:

Described markings in the individual sections that begin with the signal word "CAUTION", "WARNING" or "DANGER" shall comply with the following: the heights of all letters in the marking are 3/32 in. (2.4 mm) high minimum and the signal word shall be more prominent than the remaining text of the marking.

KJW/SJ:nsc
NKDLS

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CARTON MARKING:

The product's carton is to be marked "Household Use Only" or "Household Type". The marking shall 1) be located on at least one outside surface and 2) appear in lettering not less than the height specified in table below.

LETTERING HEIGHT

Smallest Dimension of the Carton Panel to be Marked in Inches (mm)		Minimum Height of Lettering in Inches (mm)
<u>More Than</u>	<u>Less Than or Equal to</u>	
0	6 (152)	1/8 (3.2)
6 (152)	10 (254)	3/16 (4.8)
10 (254)	---	1/4 (6.4)

INSTRUCTION MANUAL:

General - An instruction manual is provided with each product and contains suitable instructions for the operation and cleaning of the appliance.

The instruction manual also includes a list of Important Safeguards. The Important Safeguards are separate in format and appear before the operating instructions in the manual. See illustration in individual sections for text of the Important Safeguards. The statements "Read All Instructions" and "Save These Instructions" are first and last, respectively, in the list of items. The statements "Important Safeguards" and "Save These Instructions" are in letters not less than 3/16 in. (4.8 mm) high. In the text of the Important Safeguards, the upper case letters are at least 1/12 in. (2.11 mm) high and the lower case letters are at least 1/16 in. (1.6 mm) high.

Also, the manual indicates that the product is for "Household Use Only" or the product is "Household Type", in *lettering height as described above.

Polarization Instructions - If the product is provided with a polarized two blade plug cap, the instruction manual includes the following:

"This appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to defeat this safety feature".